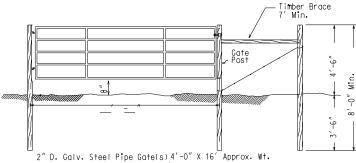


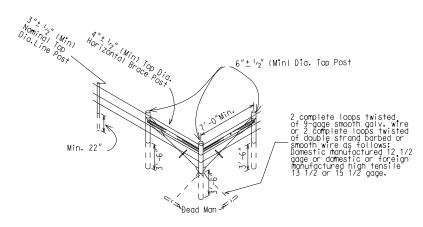
THREE-STRAND ENERGIZED FENCE DETAIL

(See Table 1 for second and fifth wire spacing)
(NTS)



2" D. Galv. Steel Pipe Gate(s) 4'-0" X 16' Approx. Wt 79 lbs. Std. Hardware for Hanging and Latching Gate(s) to be DoubleLatched. Underground insulated cable or overhead wire will be used to carry current through gate area.

GATE PANEL DETAIL



<u>ALTERNATE - 2</u> <u>DEADMAN CORNER GATE AND OR BRACE DETAIL</u> (NTS)

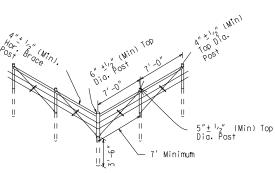
PERMANENT ENERG	IZED FENCE	DETAIL
STANDARD DWG. NO. FL-382C		
DATE 12/02	SHEET	OF

WESTERN UNION SPLICE (All Splices)

TABLE 1. WIRE SPACING AND CHARGE

	Number of Wires				
	2	3	5		
	Spacing and Charge				
Bottom wire	⊝ 24-32"	⊕ 10-14"	⊖ 10-14″		
Second	⊕ 36-40"	⊖ 20-24″	⊕ 18-22″		
Third		⊕ 36-40″	⊝ 26-30″		
Fourth			⊕ 32-36″		
Fifth			0 40-44"		

rge 🕀 Hot ⊝ Ground



ALTERNATE — 1 Double brace corner Gate or brace detail

NOTES:

All fences shall meet NRCS Practice Standard for fence. Code 382 in the local NRCS Field Office Technical Guide

. WIRE

 Fences will be constructed of at least three wires, with the total height of the fence to the top wire not less than 36 inches. Wire will be new, smooth, and meet or exceed the following:

Tensile strength - 170,000 PSI Galvanizing - Type III Gage - 12¹/₂

Spacing from the ground shall be as follows: 12 inch bottom wire. 22 inch middle wire, and the top wire 36 inches (2 inch variance on all wires). The top and bottom wires will be hot and the middle wire as the ground. In the event that more wires or different spacing is requested, the responsible NRCS employee will determine if the circumstances justify changing the above specifications.

- 2.Insulated Cable -- Use galvanized wire with two layers of insulation for underground burial or overhead transmission. Do not use copper or insulated wire due to corrosion factor and tensile strength.
- 3.In-line wire strainers should be used on each wire so the proper tension can be maintained or adjusted. Generally 200 300 pounds of tension should be maintained on each wire.

B. POST

- 1. Corner, gate and brace posts shall be constructed as shown in Alternate 1 or 2 on this sheet. Horizontal braces are required at all corners, gates and definite angles in the fence. Horizontal bracing shall be installed at inervals not to exceed 1320 feet.
- 2. Line post shall be $3^1 v_2^{\prime\prime\prime}$ inch nominal dia. pressure treated wood or fiberglass. The fiberglass should be the "T" shaped post at least 1 inch (cross-section) with notches or holes on 2 inch maximum spacing for the fence wire. Also insultimber type posts. $1^1 v_2^{\prime\prime\prime}$ x $1^1 v_2^{\prime\prime\prime}$ square having notches or holes at 2 inch spacing for wire attachment may be used. Posts shall be long enough for fence design and in the ground at least 22 inches. Fiberglass, polyethylene or insultimber type stays are to be used where line post spacing exceeds 50 feet. Line posts are not to exceed 50 foot centers.
- 3. Insulators Ceramic or polyethylene insulators must be used where needed. Fence fasteners or clips for fiberglass and insultimber type posts should be galvanized. Insulators and fasteners shall allow the fence wire to move past the posts as necessary.
- C. <u>ENERGIZERS</u> -- Electronic energizers or power fence controllers will meet the following criteria:
- 1.High power, low impedence with a 5.000 to 6.000 volt peak output with a pulse that is finished within 300millionths of a second.
- 2. Have a high impact weather resistant case.

Have safety fuse(s).

- 4.Be 110 volt, 220 volt, or 12 volt battery powered systems.
- 5. Must have a lightening arrestor.
- D. <u>GROUND</u> -- Fences must be grounded. Energizer ground wire must be connected to a galvanized pipe or rod 3/4inch diameter or larger and driven into the ground a minimum of 6 feet. If soil depth prohibits this 6 foot depth, two or more galvanized pipes or rods shall be used. Ground wires attached to the fence will be the same insulation material as for the energizer. Do not place ground rods any closer than 10 feet to any other electrical ground or water pipes. Do not install ground stakes near milking barns, water pipes, or any other metal item leading into the barn or working area. Lightning arresters should be installed on all fence systems, grounding all wires at least every 3.000 feet on the fence.



File No.

Drawing No.

		REVISIONS		
		TITLE	APPROVED	DATE
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